2004

Design Awards Program

United States Air Force 2004 Design Awards

Over the last 30 years, the USAF Design Awards Program has served as a means of recognizing outstanding contributions to the Air Force mission by design professionals around the world. This brochure details the work of award winning professionals and teams that have helped the Air Force maintain its reputation of facility design excellence. Throughout this document you will find the design principles that enable the Air Force to provide its airmen with quality facilities and state-of-the-art installations.

The winners of the 2004 United States Air Force Design Awards Program exemplify the wide variety of facilities and installations available to our Air Force men and women. These projects have directly impacted the lives of countless airmen through facilities commemorating the history of our air and space programs as well as allowing our forces to work in a safe, durable, technologically advanced workplace. Each facility and installation is unique, drawing upon the natural geographic and cultural influences of the surrounding areas. Each facility and installation is unique, drawing upon the natural geographic and cultural influences of the surrounding areas. Though unique, each facility plays an integral role in the development of the global Air Force community that is committed to sustaining the environment and our resources.

As we continually strive for superior facility design, I congratulate the winners of the 2004 USAF Design Awards Program.

L. DEAN FOX, Maj Gen, USAF
The Civil Engineer
DCS/Installations & Logistics

2004
Design Awards Program

This Annual Report marks the 29th anniversary of the United States Air Force Design Awards Program that was established in 1976 to recognize and promote design excellence. The Air Force sets no limits on the number or type of projects that can compete each year. There are seven project award categories. These include Planning Studies and Design Guides, Concept Design, Interior Design, Landscape Design, Housing Community Profiles, Facility Design, and Military Family Housing.

For each year's competition, an effort is made to secure jurors of the highest professional standards, blending progressive professionals who are knowledgeable of design trends in the private sector with exceptional design professionals currently in government service who understand military terminology and design standards.

The United States Air Force Design Awards Program is a viable and important program that has become institutionalized within the Air Force. It is widely recognized throughout the federal government and is supported by the enthusiastic participation of notable professionals in the private sector. The program is a proud recipient of the 2000 Federal Design Achievement Award, which recognizes exceptional design achievement from all sectors of the Federal Government.

Honor Award

Planning Studies and Design Guides
Architectural Compatibility Guide
Incirlik Air Base, Turkey

General Plan
Langley Air Force Base, Virginia

Concept Design
Systems Acquisition Management Support (SAMS) Complex
Los Angeles Air Force Base, California

Interior Design
National Air and Space Intelligence Center Renovation
Wright-Patterson Air Force Base, Ohio

Facility Design
Fitness Center
Little Rock Air Force Base, Arkansas

Department of Defense Dependent School
Aviano Air Base, Italy

Citation Award

Planning Studies and Design Guides
Survival School 10 Year Master Plan
Fairchild Air Force Base, Washington

Warm Weather Gates Design Study
Air Mobility Command

Design Guide
Aviano Air Base, Italy

Concept Design
Replacement Military Family Housing
Mountain Home Air Force Base, Idaho

Consolidated Support Facility
Edwards Air Force Base, California

Acquisition Management Facility Renovation
Hanscom Air Force Base, Massachusetts

Interior Design
Air Force Research Laboratory Teleconference Facility
Wright-Patterson Air Force Base, Ohio

Lodging Facility
Niagara Falls Air Reserve Station, New York

USAF Museum Cold War Gallery
Wright-Patterson Air Force Base, Ohio

Merit Award

Planning Studies and Design Guides
Facilities Excellence Plan
Peterson Air Force Base, Colorado

Charleston 2020
Charleston Air Force Base, South Carolina

Concept Design
Education Center
Little Rock Air Force Base, Arkansas

Mission Planning Center
USAF Academy, Colorado

Interior Design
General Services Complex – Phase I
Grissom Air Reserve Base, Indiana

Headquarters United States Air Forces Europe Tunner Addition
Ramstein Air Base, Germany

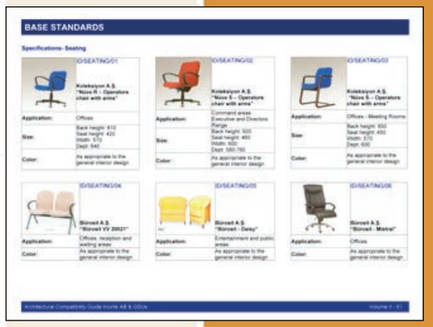
Aloha Center
Hickam Air Force Base, Hawaii

Dining Facility
Charleston Air Force Base, South Carolina

Landscape Design
Linear Air Park and Memorial
Dyess Air Force Base, Texas

Facility Design
Wind Farm
Ascension Island, South Atlantic

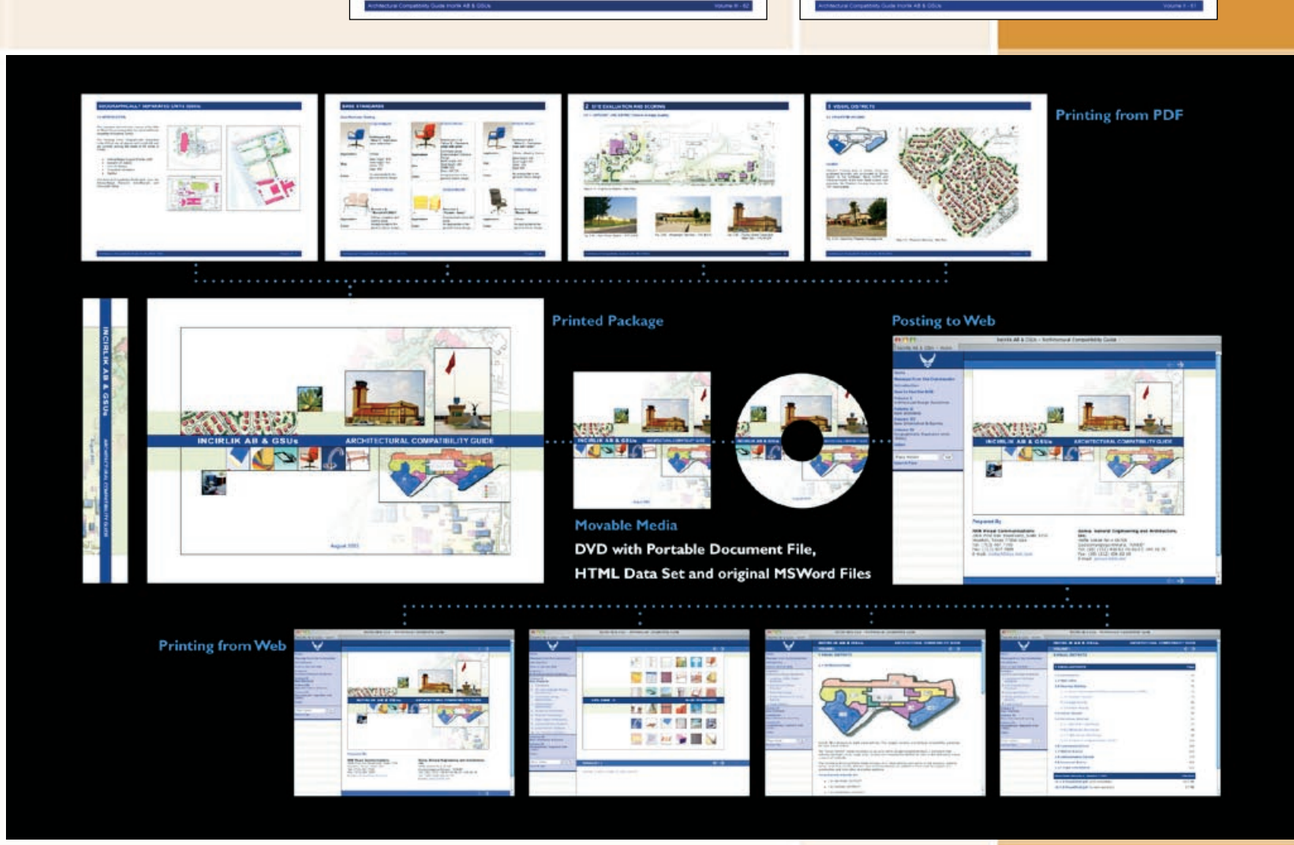
Honor Award
Planning Studies And Design Guides



Architectural Compatibility Guide
Incirlik Air Base, Turkey

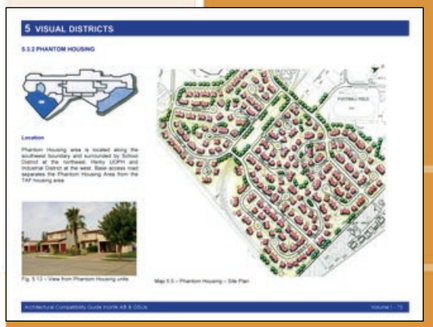
Design Organization: HOK Visual Communications/GEMAS
Using Command: United States Air Forces Europe
Design Agent: Air Force Center for Environmental Excellence
Base Engineer Organization: 39th Civil Engineer Squadron/Vinnell, Brown and Root

Due to the distinct location of Incirlik Air Base, the design organization was posed with the challenging task of establishing design principles for future additions to the air base in compatibility with existing investments as well as the architectural character and historical uniqueness of the region. The Architectural Compatibility Guide packages an organized, systematic, comprehensive, approach to future installation planning, and facility development. Incirlik's Architectural Compatibility Guide provides design guidance on all aspects of the built environment: planning, landscape design, architecture, and interior design. These standards are applied across a variety of building types ranging from industrial to medical, administrative to housing, education to hospitality and recreation. This guide addresses the need to strengthen the prevailing character of the base within its locality, places emphasis on including historical and architectural uniqueness in all future additions to the air base, while maintaining established Air Force design standards.



Jurors' Comments

- *Very good coordination of multiple deliverables – they relate well graphically and compliment one another functionally*
- *Electronic version is easily navigated and is interactive vs. simply a PDF*
- *Culturally and functionally appropriate solutions*

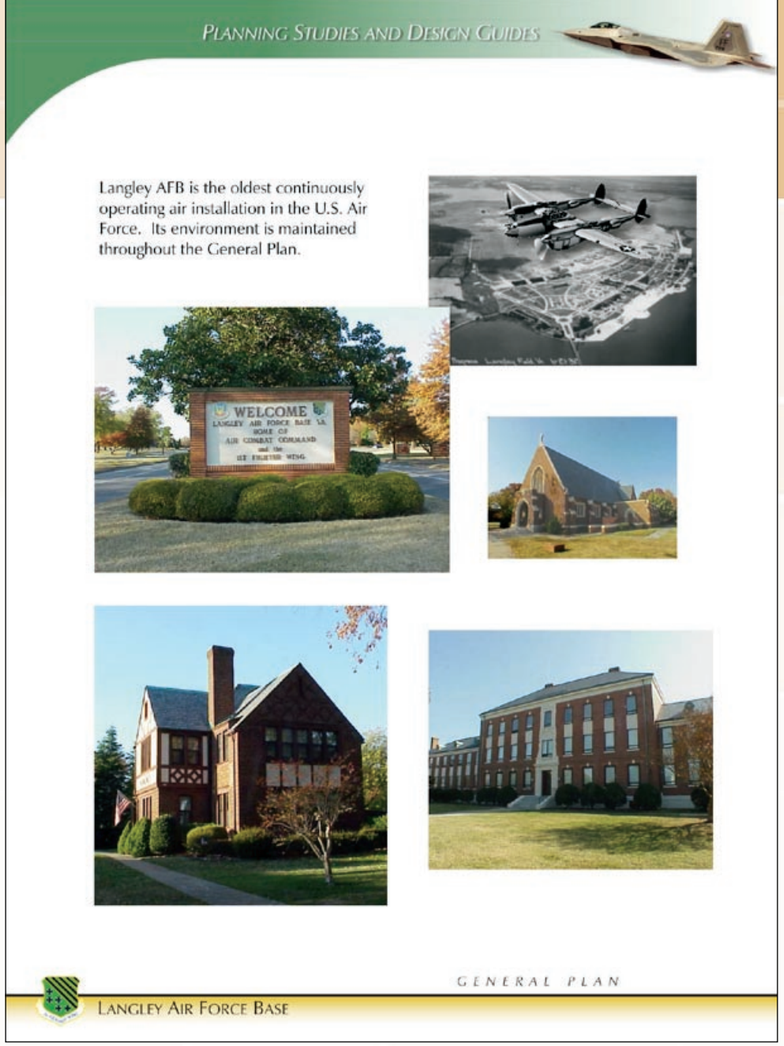


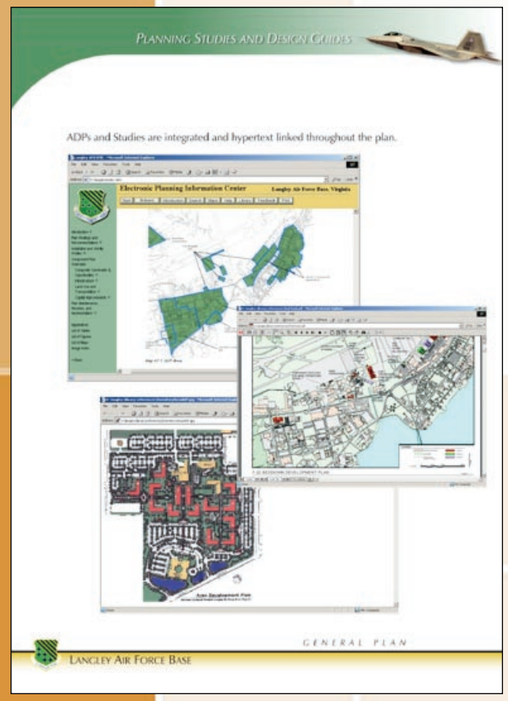
Honor Award
Planning Studies And Design Guides

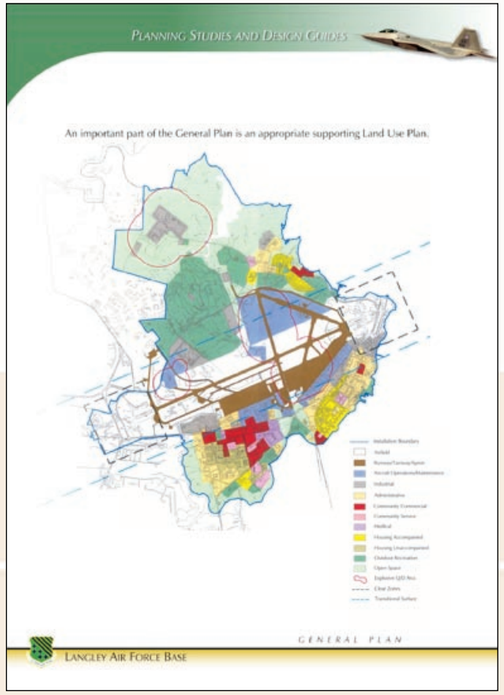
General Plan
Langley Air Force Base, Virginia

Design Organization: HB&A
Using Command: Air Combat Command
Design Agent: Sacramento District US Army Corps of Engineers
Base Engineer Organization: 1st Civil Engineer Squadron

Langley Air Force Base's General Plan and Commanders' Summary Brochure are the result of a highly interactive process involving senior and mid-level base leadership, planning staff, individual subject matter experts, and contractors. Its electronic and hardcopy versions provide a concise, complete, and current examination of Langley Air Force Base as it exists today, and direction for the future. The Electronic Planning Information Center (EPIC) component of this General Plan was designed to facilitate transition to a Geo-base map set when the installation's new Geo-base system becomes completely functional, allowing "real time" map updates as the installation continues to change and grow. It serves as a "living document" that is readily updateable. It enables base planning staff to quickly and easily make revisions to the installation's missions and programs electronically stored within the EPIC database. The General Plan serves as a user-friendly product that can be easily navigated without extensive training. Senior base leaders are provided with a wealth of information in an easily accessible format with a variety of interactive features such as hyperlinks to related studies, Air Force Instructions, General Plan tables and maps, as well as Planning and Image libraries.

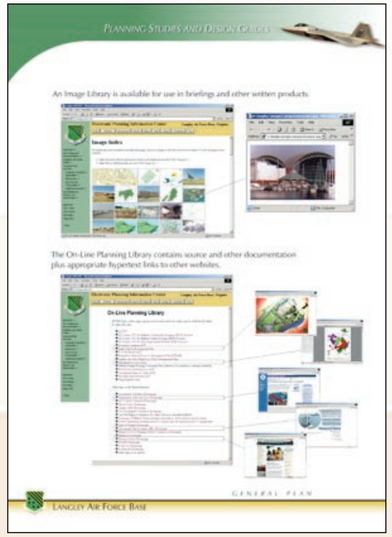


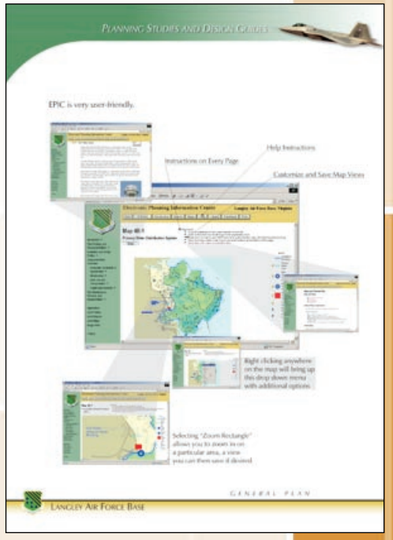




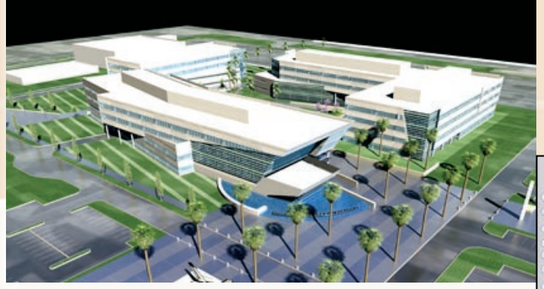
Jurors' Comments

- *Great tool for viewing development*
- *Excellent graphics in user-friendly format*





Honor Award
Concept Design



Systems Acquisition Management Support (SAMS) Complex
Los Angeles Air Force Base, California

Design Organization: Nadel Architects, Inc.
Using Command: Air Force Space Command
Base Engineer Organization: 61st Civil Engineer Squadron

Los Angeles Air Force Base currently consists of administrative and special purpose facilities spread out over 113 acres. The SAMS Complex is designed to create a functional and symbolic campus setting offering a state-of-the-art office environment with flexibility to integrate future technologies. In order to maximize operational efficiency, the architectural concept supports fluidity in interior space usage while moveable open office systems offer workspace flexibility. The exterior of the SAMS Complex includes landscaped corridors that unify campus buildings and define pedestrian flow. The campus courtyard incorporates sweeping curves, serpentine walkways, and gently rolling landscape forms. To upgrade existing security measures, the new facilities employ anti-terrorism systems such as blast resistive design elements, passive force protection measures, progressive collapse structural concepts and appropriate standoff-distances.

Jurors' Comments

- *Establishes a pedestrian-friendly image with large outdoor plazas*
- *Creative manipulation of exterior skin breaks up scale of large facility*
- *Clean lines and bold massing suggests aerodynamic forms*

Honor Award
Interior Design

National Air and Space Intelligence Center Renovation
Wright-Patterson Air Force Base, Ohio

Design Organization: Martin-Beachler Architects, Inc.
Using Command: Air Combat Command
Design Manager: Mission Support Directorate, NASIC
Host Command: Air Force Materiel Command
Using Agency: Air Intelligence Agency
Base Engineer Organization: 88th Civil Engineer Directorate

Approximately 42,000 square feet of Building 10829 were renovated into "flexible" spaces allowing work areas to easily adapt to the ever-changing missions of the National Air and Space Intelligence Center. This project completely transformed an outdated and dismal wet processing photo lab into a dynamic digital office facility. The design is centered on a large barrel-vaulted space that takes advantage of the high bays of the existing facility to gain a greater volume and height. The ceiling is treated with acoustical plaster and an advanced sound masking system to virtually eliminate unwanted noise. Systems furniture is used throughout the project to allow flexibility in creating an interactive working environment, defining work areas and circulation spaces, and creating team meeting rooms and common use areas. A variety of lighting techniques, fixtures, and controls are used to achieve the specific lighting levels required in each respective space and to give a sense of natural daylighting. This renovation project incorporates many sustainable and recyclable products and systems including interior finishes, furnishings, carpet tiles, and lighting fixtures.

Jurors' Comments

- *Colors are terrific throughout*
- *Ceilings, lighting and furnishings are exceptional*
- *Use of canopies brings high ceilings to human scale*
- *Mezzanine is a great concept*

Honor Award
Facility Design

Fitness Center
Little Rock Air Force Base, Arkansas

Design Organization: Pickering Firm Inc./C. H. Guernsey & Company Inc.
Using Command: Air Education and Training Command
Design Agent: Little Rock District US Army Corps of Engineers
Base Engineer Organization: 314th Civil Engineer Squadron

This newly constructed Fitness Center replaces an outdated 50-year old gym with a dynamic recreational facility to meet the active lifestyle of its users. Given the rare opportunity to recommend siting for a major base facility, designers reviewed three pre-selected sites, eventually selecting a prominent empty area adjacent to a massive underused parking lot. The Air Force approved the site after recognizing its economic and visual impacts for the facility. The innovative site selection and reuse of parking facilities has yielded a savings of approximately $300,000. Additionally, the open interior plan reduces the amount of acoustic tile ceilings. Translucent roofing materials and glazed interior walls achieve daylighting goals, and more than 32,000 square feet of recycled flooring materials contributes to sustainability. The completed project is a highly functional facility that symbolizes an Air Force commitment to fitness and quality of life.

Jurors' Comments

- *Good architectural compatibility with surroundings*
- *Latticework, built-in seating and towers provide human scale to large complex*
- *Great exterior colors; good attention to details*

Honor Award
Facility Design

Department of Defense Dependent School
Aviano Air Base, Italy

Design Organization: Mitchell-Giurgola Architects/OK Design Group
Using Command: United States Air Forces Europe
Design Agent: Atlantic Division Naval Facilities Engineering Command
Base Engineer Organization: 31st Civil Engineer Squadron

As part of the NATO funded Aviano Air Base Reconstruction Master Plan, the new 1500-student K-12 school was designed to create a single, consolidated educational community. The new facility eliminates two off-site leased facilities and replaces a number of deficient existing buildings. By creating the impression of multiple buildings, the scale of the school is significantly reduced and clarified. The comprehensible sense of place is especially welcome to the children and families of frequently moving service men and women. The major public elements of the school: the gymnasiums, the administrative offices and the shared multipurpose room are located adjacent to the entry courts, permitting easy off-hour use. The human scale of the village-like organization, the hierarchy of the public and private spaces and the use of local materials such as stucco, tile, and stone, combine to create a new school that is welcoming to the community and is a strong anchor for surrounding base redevelopment.

Jurors' Comments

- *Attractive exterior*
- *Lots of volume and natural light in interiors*
- *Interior and exterior design well-integrated*

Merit Award
Planning Studies And Design Guides

Facilities Excellence Plan
Peterson Air Force Base, Colorado

Design Organization: HB&A
Using Command: Air Force Space Command
Base Engineer Organization: 21st Civil Engineer Squadron

This Facilities Excellence Plan establishes an appropriate, cohesive interior and exterior aesthetic standard for the entire installation. The web-based plan details architecture and urban planning, force protection and sustainability as well as furniture selection. It is divided into nine major sections that include Character Areas, Site Elements, Landscape Design, and Engineering Design. The plan contains a database with individual datasheets for the buildings on the installation, providing information such as year of construction, square footage, and occupancy type. Another valuable tool of the plan is a search engine that allows users to locate specific information on any aspect of the facilities plan. The website's HTML formatting makes updating quick and convenient as mission, budget, command guidance, user feedback, and new planning and design requirements evolve. The Facilities Excellence Plan functions as a "living document" ensuring accuracy and its continued use well into the future.

Jurors' Comments

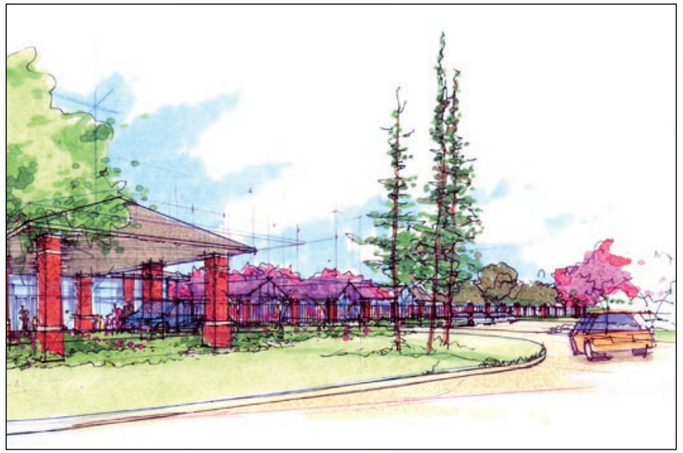
- *Easy to navigate and understand*
- *Valid, concise information*
- *Thoroughly researched and developed*

Merit Award
Planning Studies And Design Guides

Charleston 2020
Charleston Air Force Base, South Carolina

Design Organization: Parsons
Using Command: Air Mobility Command
Design Agent: Baltimore District US Army Corps of Engineers
Base Engineer Organization: 437th Civil Engineer Squadron

The methodology used to develop this document places a strong emphasis on the traditional comprehensive planning process while addressing the unique planning facets of Charleston Air Force Base. The plan addresses functional relationships and site analysis to determine recommended project sitings while it provides conceptual floor plans based on user input and appropriate design guidance. Assessing sustainable planning issues, mission and environmental constraints, and identifying the installation's established design principles have developed a consolidated document. The document will serve as an effective marketing package to Air Force and congressional leadership. The planning process incorporated input from wing leadership, group commanders, and key partner units and guides over $70 million in military design and construction. The resulting document demonstrates how a participatory planning process can promote mission viability, executable facility programs, and sustainable base development.



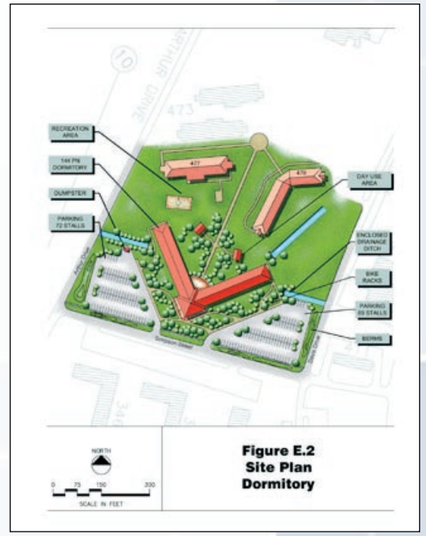


Figure E.2
Site Plan
Dormitory

Jurors' Comments

- *Very well coordinated and effective graphics*
- *Unique presentation of the base's top MILCON priorities - demonstrates that these are real projects meeting real needs*
- *Great implementation and "sales" tool - really communicates that they have their act together*

Merit Award
Concept Design

Education Center
Little Rock Air Force Base, Arkansas

Design Organization: Cromwell Architects Engineers
Using Command: Air Education and Training Command
Design Agent: Little Rock Air Force Base
Base Engineer Organization: 314th Civil Engineer Squadron

This two-story Education Center will offer a diverse curriculum by providing classrooms, laboratories, offices, a library, and other support spaces for seven satellite universities. Convenient student access without entering the base's controlled perimeter will be provided by adjusting the base's perimeter fence. The center accommodates a variety of classroom sizes and instructional styles, and features non-structural classroom walls to allow easy reconfiguration. Numerous sustainable design features are incorporated into the concept. These include wetland conservation, the use of materials with high-recycled content, high-efficiency under-floor air delivery heating and air-conditioning systems, high-efficiency lighting systems, low-emissivity glass, and natural daylighting. Indoor air quality instrumentation will ensure indoor air quality. The center's unique design integrating the latest in building and educational technology will provide quality college education to base personnel and the local community.

Jurors' Comments

- *Focuses on the environment*
- *Excellent siting*
- *Welcoming design for educational function*

Merit Award
Concept Design

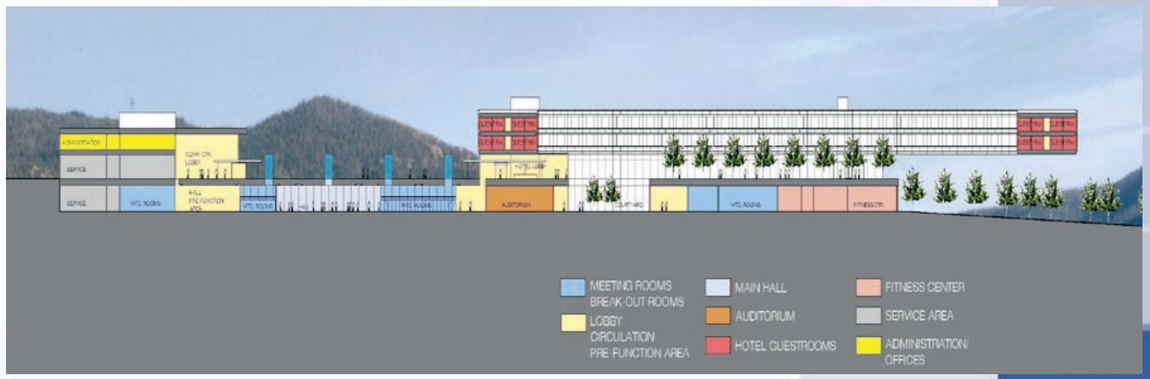
Mission Planning Center
United States Air Force Academy, Colorado

Design Organization: Skidmore, Owings and Merrill
Using Command: United States Air Force Academy
Base Engineer Organization: 10th Civil Engineer Group

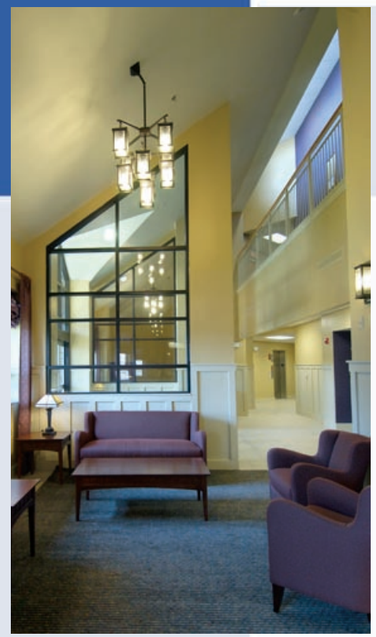
This concept's primary objective is to accommodate the needs of various customers with ranging interests into a single complex to avoid piecemeal development. This state-of-the-art facility can be used for secure meetings and conferences for up to 1000 attendees. Designed in concert with the Academy's well-established International Style, the concept was developed with the involvement of senior leadership and individual user groups with reviews by Academy staff and the Colorado Historical Society. The Center will occupy the site of the Officer's Club and Visiting Officers Quarters, reusing an already disturbed site. Business and fitness centers are adjacent to the associated 350 room lodging space. The facility is imbedded into the topography, protecting the lower floor from extreme temperatures. Large glass light columns strategically located within the plaza paving grid, funnel natural light into the conference center below during the day and become towers of light on the plaza at night. Designed in compliance with established architectural, planning, landscape, and interior guidelines, the Mission Planning Center complements the Academy's 18,000-acre campus, which hosts nearly one million visitors each year.

Jurors' Comments

- *Fully embraces international style*
- *Good integration of myriad of different functions*
- *Good use of natural light*



Merit Award
Interior Design



General Services Complex – Phase 1
Grissom Air Reserve Base, Indiana

Design Organization: Rowland Design, Inc.
Using Command: Air Force Reserve Command
Design Agent: Louisville District US Army Corps of Engineers
Base Engineer Organization: 434th Civil Engineer Squadron

This complex conveys a warm, honest, structured and orderly feel, primarily based on the strong Amish and Shaker influences predominant in the area. Large-scale porcelain pavers that emulate natural, golden-colored slate are used throughout the facility. Lobby walls feature a painted wood batten board wainscot to further enhance the Shaker feel. Simulated granite is used for counters, elevator cab walls and sills throughout the complex, reinforcing the theme of durable, maintainable, natural-looking materials. Corridors in the lodging area have two-toned patterned carpet tile with a contrasting color border and inset pattern. The carpet pattern highlights lodging room entrances. Sophisticated patterned fabrics have been selected for draperies and bedspreads to provide a higher level of finish for distinguished visitor suites. The complex offers guests the ambience of a country resort while upholding the highest Air Force design principles.

Jurors' Comments

- *Hallway has attractive carpet and ceiling details at each guest room entry breaking up the long expanse*
- *Attractive, warm and clean dining facility*
- *Nice detailing of wall paneling in lobby, furniture selection attractive*

Merit Award
Interior Design

Headquarters United States Air Forces Europe
Tunner Addition
Ramstein Air Base, Germany

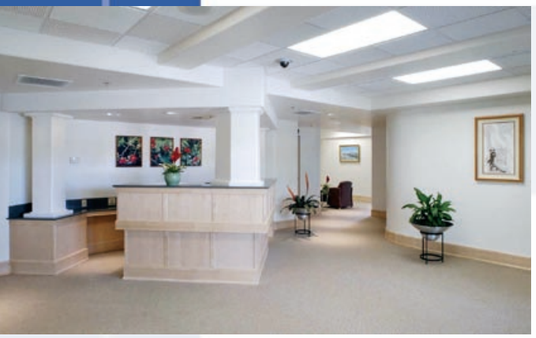
Design Organization: Bilfinger Berger AG
Using Command: United States Air Forces Europe
Base Engineer Organization: 435th Civil Engineer Group

Comprised of a reception area, conference room, three offices, a wardrobe area and accessible restrooms, this addition functions mainly as a reception, support and break area for distinguished visitors and conference attendees. The addition is a single story structure with the main entrance located in an open tower. The curved plan of the existing conference room has been accentuated by patterns in the new floor covering, the configuration of the floor plan and the suspended ceiling. The use of bird's eye maple for the woodwork, the judicious use of blue wallpaper and carpeting, as well as the generous use of glass create a pleasant and modern environment.

Jurors' Comments

- *Light and shadows formed by light fixtures is innovative*
- *Great use of finish materials, i.e. granite floors & bird's eye maple paneling*
- *Particularly like wall niches with down lights*

Merit Award
Interior Design



Aloha Center
Hickam Air Force Base, Hawaii

Design Organization: 15th Civil Engineer Squadron
Using Command: Pacific Air Forces
Design Agent: 15th Contracting Squadron

As the primary video teleconferencing center at Hickam Air Force Base, the Aloha Center includes one large auditorium-type video teleconference room seating up to 85 attendees with network access at each auditorium seat, one executive video teleconference room and two separate meeting rooms. The 1950's era movie theatre is now a state-of-the-art meeting center with video teleconferencing capability, upgraded restrooms, VIP meeting rooms, and accessibility for disabled visitors. Modern air conditioning, fire sprinklers, a fire alarm system, and other mechanical, electrical and communications enhancements have been made to the former theater. The projection room is equipped to present single screen or multiple screen presentations. The designers carefully coordinated the project with the State Historic Office to preserve the historic integrity of the building and its surroundings.

Jurors' Comments

- *Exceptional details*
- *Bright, clean and inviting lobby*
- *Use of light color palette and wood tones adds to a welcoming environment*

Merit Award
Interior Design

Dining Facility
Charleston Air Force Base, South Carolina

Design Organization: Glick/Boehm & Associates, Inc.
Using Command: Air Mobility Command
Design Agent: Southern Division Naval Facilities Engineering Command
Base Engineer Organization: 347th Civil Engineer Squadron

This new Dining Facility serves as a centerpiece to the newly redeveloped dormitory community area. The building features a sequence of spaces from outdoor to indoor progressing from the vestibule to the lobby to the major circulation corridor. The building is symmetrical, facilitating patron access from either side of the campus. The clearly defined interior circulation is organized along a grid of exposed steel trusses, which accentuate the volume of the dining areas. A tongue-and-groove wood ceiling contrasts with these painted trusses. Patterns in the floor tile and the expression of wood columns reinforce the rhythm of the structure above. The Dining Facility is designed to serve 630 total patrons with seating for up to 250 at one time.

Jurors' Comments

- *Great use of dining space*
- *Interesting dichotomy of ceiling and partition details*
- *Kudos for the use of local artist renditions for murals*

Citation Award
Planning Studies And Design Guides

Survival School 10 Year Master Plan
Fairchild Air Force Base, Washington

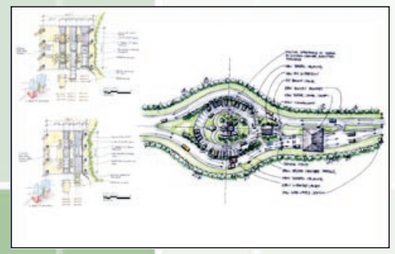
Design Organization: WJA Design Collaborative
Using Command: Air Mobility Command
Design Agent: Seattle District US Army Corps of Engineers
Base Engineer Organization: 92nd Civil Engineer Squadron

Located across the runway from the main cantonment area of the base, the Survival School campus's 83 acres provide an ideal environment for teaching aircrews and future survival instructors advanced skills for survival in any geographical location or enemy situation. The Master Plan serves as an interactive tool for projecting the development of the campus as time progresses. To enhance its usability, the Master Plan was created as a user-friendly website as well as a stand-alone CD. Increasing the clarity, legibility and interactivity of the drawings provides excellent opportunities for distribution, understanding and participation. Layers can be turned on and off, and animation on the phasing drawing shows the proposed sequence for development. The planning effort was the culmination of data analysis and interview charrettes conducted on-site with users, maintenance personnel and engineering staff to provide a comprehensive understanding of the man-made and natural constraints of the campus area.

Jurors' Comments

- *Wonderfully interactive and easy to navigate - very intuitive*
- *Very good coverage of existing and proposed improvements and phasing*
- *Color palette gives a computer generated plan more of a hand-drawn feel*

Citation Award
Planning Studies And Design Guides



Warm Weather Gates Design Study
Air Mobility Command

Design Organization: URS Corp., Inc.
Using Command: Air Mobility Command
Design Agent: Air Force Center for Environmental Excellence

This study produced a series of efficient, applicable security measures requiring little modification to existing entry gates and includes concepts for new promenades and gate-houses. The study calls for developing base entries that evoke a feeling of safety within the installation by providing necessary perimeter security. The study promotes a series of spaces, or layers, that will give the visitor and security personnel several options along the promenade to ensure safety. By utilizing the existing base architectural standards to guide the use of materials, building forms, lighting, colors, and landscaping, each installation will have unique base entries that incorporate the latest Air Force security requirements. The design of the entry gates will also introduce visitors to the context of the installation. Not only will the enhanced entries provide security personnel shelter from harsh weather elements, they will create a safe work environment conducive to productivity while serving as the installation's first line of defense.

Jurors' Comments

- *Innovative solutions*
- *Clear, consistent presentation of gate analysis and proposals for multiple installations*

Citation Award
Planning Studies And Design Guides

Design Guide
Aviano Air Base, Italy

Design Organization: CH2MHill
Using Command: United States Air Forces Europe
Design Agent: Air Force Center for Environmental Excellence
Base Engineer Organization: 31st Civil Engineer Squadron

This guide provides a thorough assessment of local vernacular architecture, suggests appropriate material choices, and addresses the full range of aesthetic, cultural, maintenance and practical issues. The guide lends direction to designers of various nationalities for the design, programming and construction of facilities on Aviano Air Base. The current guide contains updated design and construction information, including lessons learned from past projects and addresses all aspects of facility design identified as needing improvement. It includes a series of checklists enabling users to document compliance with design guidance at various design process milestones. Though encompassing conventional aspects of design guidance, this document also addresses interior design, mechanical design, electrical design and civil engineering design. The Design Guide has been coordinated with the Aviano General Plan to avoid inconsistencies. The guide also serves as a prototype for Aviano's Geographically Separated Units such as Moron Air Base, Ghedi Air Base and Camp Darby.

Jurors' Comments

- *Beautiful Cover*
- *Elegantly integrates base into historical and contemporary local contexts, both physical and professional*

Citation Award
Concept Design

Replacement Military Family Housing
Mountain Home Air Force Base, Idaho

Design Organization: Evergreene Construction
Using Command: Air Combat Command
Design Agent: Seattle District US Army Corps of Engineers
Base Engineer Organization: 366th Civil Engineer Squadron

Reflecting the character, massing and scale of a traditional "Craftsman" style neighborhood of the early 20th century, this project will provide new homes that are efficient and refreshing. A classic neighborhood effect will be achieved by using natural earth-tone materials and textures along with detailing and lighting fixtures that exemplify the "Craftsman" style. To further embrace this style, the houses feature expansive porches across the front elevations, recessed garage elements, and large overhanging gabled roofs. The floor plans incorporate exceptional open space planning with the flexibility to meet the needs of successive occupants with varied requirements.

Jurors' Comments

- *Well done and interesting exterior elevations*
- *Good use of materials and massing; meets design objectives*
- *Excellent individual unit identity*

Jurors' Comments

- *Recalls importance of "flight" while respecting established architectural vocabulary*
- *Interior maximizes natural light and exterior views*
- *Meets goal of making a good impression as the most visited public building on base*

Citation Award
Concept Design

Consolidated Support Facility
Edwards Air Force Base, California

Design Organization: Edward J. Cass and Associates
Using Command: Air Force Materiel Command
Design Agent: Sacramento District US Army Corps of Engineers
Base Engineer Organization: 95th Civil Engineer Group

The two-story, 49,000 square foot building will consolidate all the support functions of the base into one centrally located facility and act as the political center of the installation. This Consolidated Support Facility will become the most visited public building at Edwards Air Force Base. The project has been designated as an Architecturally Significant Project and is designed to be both visually and functionally compatible with the style and finish of its surrounding facilities. It will also serve as an anchor facility that will establish an architectural character that will be adopted for future buildings. The facility's dynamic forms are designed to depict movement associated with flight, acceleration and aerodynamics. This is most evident in the large curved roof forms that seem poised for take-off. All end user requirements have been met by providing a sophisticated facility with a flexible open plan. This flexibility will allow for future changes in building function while accommodating specific user requirement such as maximizing exterior views and natural light flow throughout the facility.

Jurors' Comments

- *Dramatic adaptive reuse of a long, oppressive façade into a beautifully scaled and aesthetically pleasing research facility*
- *Design features break the vast elevations into three distinct areas with human scale*
- *An energy efficient work environment with natural light deep within the facility*

Citation Award
Concept Design

Acquisition Management Facility Renovation
Hanscom Air Force Base, Massachusetts

Design Organization: Reinhardt Associates, Inc.
Using Command: Air Force Materiel Command
Design Agent: New England District US Army Corps of Engineers
Base Engineer Organization: 66th Civil Engineer Squadron

An existing utilitarian warehouse and commissary with low, flat façades will be transformed into a unique yet compatible state-of-the-art research facility. Approximately 1,100 civilian and contractor research personnel will be relocated from off base into the new facility. Design standards for the facility are comparable to similar corporate and private sector facilities. Incorporating design features such as contemporary vertical columns, arched canopy entrances and a continuous linear cornice break up the immense elevations into three distinct areas. Using like materials, finishes and complimentary forms creates a sense of unity. Incorporating diverse styles and patterns of masonry also helps break up the vast existing façade, which is very dominant and repetitive.

Jurors' Comments

- *Innovative ceiling drop*
- *Very "corporate" appearance*
- *Remarkable before and after*
- *Wood paneling very professional*

Citation Award
Interior Design

Air Force Research Laboratory
Teleconference Facility
Wright-Patterson Air Force Base, Ohio

Design Organization: Hardlines Design Company
Using Command: Air Force Materiel Command
Base Engineer Organization: 88th Civil Engineer Directorate

This facility provides worldwide teleconferencing access and visitor display space for the Air Force Research Laboratory. It accommodates new program or project demonstrations for foreign and domestic industry executives, government officials and military personnel. The formerly utilitarian entry lobby and access corridors to the main hangar space have been modernized to reflect contemporary corporate standards. The renovation includes integrating new fabric and wood panel wall covering, and architectural features that create the required acoustical environment for this type of facility. An arched dropped ceiling with acoustical metal panels was introduced to support video conferencing equipment, lighting and projectors. Perimeter gallery seating augments "sight line" wedged-shaped flare tables with built-in microphones and communication outlets. The conferencing facility focuses on providing the laboratory with an appropriate area for briefing modern technologies. The modern facility features state-of-the-art teleconferencing capabilities and provides exposition space for hands-on presentation of prototypes.

Citation Award
Interior Design

Lodging Facility
Niagara Falls Air Reserve Station, New York

Design Organization: Louisville District US Army Corps of Engineers
Using Command: Air Force Reserve Command
Base Engineer Organization: 914th Civil Engineer Squadron

This two-story, 60-room lodging facility replaces an existing substandard facility that was located on the same site. The building's character is that of a country lodge with brick and stone walls and columns. Divided pane windows add to the cozy inn feeling. A large stone fireplace with a raised hearth is the focal point for the lobby. Rich brown porcelain pavers define the lobby area and extend to the elevator and corridors beyond. Native American references are depicted in the color and texture selections of the pavers, wall finishes and artwork throughout the facility. Lobby and guest room furnishings are designed with clean lines and constructed of cherry stained red oak, complementing the building's architecture. Durable, easily maintained materials enhance the sustainability of the facility.

Jurors' Comments

- *Great use of heights in lobby*
- *Warm and inviting*
- *Fireplace is great*

Citation Award
Interior Design

USAF Museum Cold War Gallery Addition
Wright-Patterson Air Force Base, Ohio

Design Organization: Hayes, Seay, Mattern & Mattern, Inc.
Using Command: Air Force Materiel Command
Design Agent: Louisville District US Army Corps of Engineers
Base Engineer Organization: 88th Civil Engineer Directorate

Reflecting the architecture of a traditional, early aviation hangar while blending with the two existing museum galleries, this expansion displays Cold War era aircraft, missiles, and other exhibits. Due to the various weights and sizes of exhibits on display, a careful analysis was completed to construct interiors capable of accommodating the unique needs of each exhibit. The balcony adds additional perspective for aircraft and other displays suspended from the ceiling. The lighting design enhances the exhibits creating a dramatic presentation. The museum's design reflects the historical Wright and Patterson airfields and blends well with the current Wright-Patterson Air Force Base operational elements.

Jurors' Comments

- *Excellent museum design*
- *Unique perspectives are gained by viewing displays from the mezzanine*

Citation Award
Landscape Design

Linear Airpark and Memorial
Dyess Air Force Base, Texas

Design Organization: 7th Civil Engineer Squadron
Using Command: Air Combat Command

Focusing on events and aircraft geographically tied to West Texas, the landscape concepts in this Linear Airpark and Memorial are designed specifically for the local environment with special attention given to the sun, wind and water conditions of the region. Easy access to all parts of the airpark are emphasized with roads and parking threaded throughout the site to reduce walking distances between displays. The needs of veterans and elderly visitors were taken into account, resulting in wheelchair accessible pathways with minimal travel distances. Although the airpark is used extensively for picnics, jogging and passive water recreational activities have also been addressed. The sustainable value of the design lies in its flexibility to be updated as the future of Air Force aviation advances.

Jurors' Comments

- *Great consolidation of scattered memorials into a cohesive display*
- *Good blending of natural and built environments*

Citation Award
Facility Design

Wind Farm
Ascension Island, South Atlantic

Design Organization: Idaho National Engineering & Environmental Laboratory
Using Command: Air Force Space Command
Base Engineer Organization: 45th Civil Engineer Squadron

The goals of this project were to provide a stable, efficient supply of power to the base power grid that reduces fuel consumption, hydrocarbon emissions, and diesel generator maintenance costs while addressing design requirements of a remote location with rugged topography. Careful research and analysis was required to ensure the turbines can accommodate the full range of available wind levels, have durable materials appropriate for the harsh environment, have the flexibility to address future energy demands, and easily integrate with the existing electrical system and diesel power plant. The designers had to overcome numerous challenges such as the remote shipping location, pier off-loading restrictions, limited site access, availability of proper construction equipment and manpower, and the adequacy of support facilities. The Wind Farm has resulted in a reduction of fuel consumption of over 1.5 million gallons to date, and a significant reduction of nitrous oxide and carbon dioxide output by diesel generators. The project has saved over 2.4 million dollars in power production costs and a 1.75 million dollar reduction in fuel oil expenditures.

Jurors' Comments

- *Great example of sustainable development*
- *Innovative solution to energy requirements*

Jury Members

Planning, Urban Design, Landscape Architecture

Mr. Stuart Coppedge, AIA (Chair)
HB&A
Colorado Springs, Colorado
Architect

Mr. Mike Flahive
Headquarters Air Mobility Command
Scott Air Force Base, Illinois
Command Community Planner

Mr. Thomas Woosley, RLA
Air Force Center for
Environmental Excellence
Brooks City-Base, Texas
Landscape Architect

Interior Design

Mr. Craig Soffe (Chair)
Soffe Interiors
Salt Lake City, Utah
Interior Designer

Ms. Sandra W. Warner, IIDA
HQ Air Force Center for
Environmental Excellence
Brooks City-Base, Texas
Interior Designer

Architecture and Engineering

Mr. Darrell Campbell, RA (Chair)
Air Force Center for
Environmental Excellence
Brooks City-Base, Texas
Architect

Lt Col Ed Henson, USAFR, AIA
Atriax Architects & Engineers
Hickory, North Carolina
Architect

Lt Col Brent Mossbarger, USAFR, RA
U.S. General Services Administration
Ft. Worth, Texas
Architect

Mr. Gary Boehm, AIA
Glick/Boehm & Associates, Inc.
Charleston, South Carolina
Architect

Mr. Charles Ondrej
Air Force Center for
Environmental Excellence
Brooks City-Base, Texas
Electrical Engineer

Photography / Artist Rendering Credits

Listed In Order

pages 4-5	HOK Visual Communications
pages 6-7	HB&A and 1st Fighter Wing Public Affairs
pages 8-9	Nadle Architects, Inc.
pages 10-11	Todd D. Martin, AIA
pages 12-13	Elio e Stefano Ciol
pages 14-15	Dan Berry Photographer
page 16	HB&A
page 17	Parsons
page 18	Art Associates Inc.
page 19	Skidmore, Owings and Merrill
page 20	Creative Sources
page 21	Peter Heinrich
page 22	Conrado N. Cueva, Mistunaga & Associates
page 23	David P. Harpe
page 24, top	CH2MHill
page 24, bottom	Richard Li
page 25, top	WJA Design Collaborative
page 25, bottom	Ben Huang
page 26, top	Jennifer M. Cohen
page 26, bottom	Scott Roberts and Brent Bowen
page 27, top	Charissa Wang
page 27, bottom	Stephen Grimes
page 28, top	Doug Pohl
page 28, bottom	Teresa Close & Ted Shierk
page 29	Gary N. Seifert

Acknowledgments

The Civil Engineer
Major General L. Dean Fox

The Design Criteria Division of the Technical Directorate, Air Force Center for Environmental Excellence prepared this Annual Report.

Director, Air Force Center for Environmental Excellence
Paul A. Parker

Technical Director
Colonel Randie A. Strom

Graphic Design
HOK Visual Communications
Houston, TX

United States Air Force Design Awards Program Manager
David M. Duncan, R.A.

United States Air Force Design Awards Program Editor
Ms. Sandra W. Warner, IIDA